Performance Data Sheet

RKA5510CXA

General Information

Model	RKA5510CXA	**Refrigerant**	R-407C
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	2350	2360					
	Watts	445	478					
	Amps	4.00	4.28					
	Lb/h	32.4	32.6					
-10	Btu/h	2930	2880	2830				
	Watts	464	502	540				
	Amps	4.18	4.50	4.84				
	Lb/h	39.4	39.4	39.5				
-5	Btu/h	3590	3470	3350	3230			
	Watts	480	523	566	610			
	Amps	4.33	4.70	5.08	5.46			
	Lb/h	47.0	46.8	46.7	46.7			
0	Btu/h	4300	4120	3930	3750	3570		
	Watts	494	541	589	638	687		
	Amps	4.45	4.87	5.29	5.72	6.16		
	Lb/h	55.2	54.9	54.7	54.4	54.2		
5	Btu/h	5070	4830	4580	4330	4090		
	Watts	505	557	610	663	717		
	Amps	4.55	5.01	5.47	5.95	6.43		
	Lb/h	64.1	63.6	63.2	62.8	62.4		
10	Btu/h	5910	5600	5290	4980	4670	4360	4050
	Watts	513	571	628	687	745	805	865
	Amps	4.61	5.12	5.63	6.15	6.67	7.21	7.76
	Lb/h	73.5	72.9	72.3	71.8	71.2	70.7	70.3
15	Btu/h	6800	6430	6050	5680	5310	4940	4570
	Watts	519	581	644	707	771	835	900
	Amps	4.65	5.20	5.75	6.32	6.89	7.47	8.07
	Lb/h	83.6	82.8	82.1	81.4	80.7	80.0	79.4
20	Btu/h	7750	7320	6880	6450	6010	5570	5140
	Watts	522	590	657	725	794	863	933
	Amps	4.66	5.26	5.86	6.46	7.08	7.71	8.34
	Lb/h	94.2	93.3	92.5	91.6	90.8	89.9	89.2

25	Btu/h	8770	8270	7770	7270	6770	6270	5770
	Watts	523	595	668	741	815	889	964
	Amps	4.65	5.29	5.93	6.58	7.24	7.91	8.60
	Lb/h	106	104	103	102	101	100	99.5
30	Btu/h	9840	9280	8710	8150	7590	7030	6470
	Watts	521	598	676	754	833	912	992
	Amps	4.62	5.30	5.99	6.68	7.39	8.10	8.82
	Lb/h	117	116	115	114	113	112	111
35	Btu/h	11000	10300	9720	9090	8470	7850	7220
	Watts	516	598	681	764	848	932	1020
	Amps	4.56	5.29	6.02	6.76	7.50	8.26	9.03
	Lb/h	130	128	127	126	125	123	122
40	Btu/h	12200	11500	10800	10100	9410	8720	8040
	Watts	508	595	684	772	861	950	1040
	Amps	4.49	5.26	6.03	6.81	7.60	8.40	9.21
	Lb/h	143	141	140	139	137	136	134
45	Btu/h	13400	12600	11900	11200	10400	9650	8910
	Watts	497	590	683	777	871	965	1060
	Amps	4.39	5.20	6.02	6.85	7.68	8.52	9.37
	Lb/h	156	155	153	152	150	149	147
50	Btu/h	14700	13900	13100	12300	11500	10600	9840
	Watts	483	582	680	779	878	977	1080
	Amps	4.28	5.13	5.99	6.86	7.74	8.62	9.51
	Lb/h	171	169	167	165	164	162	161
55	Btu/h	16000	15200	14300	13400	12600	11700	10800
	Watts	467	570	674	778	882	987	1090
	Amps	4.14	5.04	5.95	6.86	7.77	8.70	9.64
	Lb/h	185	183	182	180	178	176	174

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.772537E+03	1.217926E+02	1.255938E+00	5.789059E+01
C2	2.502863E+02	-5.570498E+00	-5.253806E-02	1.947966E+00
C3	-1.836746E+01	4.668210E+00	4.026774E-02	-3.231501E-02
C4	1.174734E+00	-5.798800E-02	-5.449374E-04	1.174046E-02
C5	-1.261092E+00	1.033857E-01	9.433062E-04	-2.822837E-03
C6	-2.391927E-03	-1.393736E-03	-2.068708E-05	-7.389206E-05
C7	-7.439695E-04	-5.088755E-05	1.528047E-06	-7.179633E-06
C8	5.681854E-04	8.448838E-05	-3.824355E-07	7.656708E-06
C9	-1.087742E-04	-3.448511E-05	-2.370798E-07	-2.234699E-06
C10	2.126659E-05	1.443517E-05	2.133686E-07	7.306002E-07

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature